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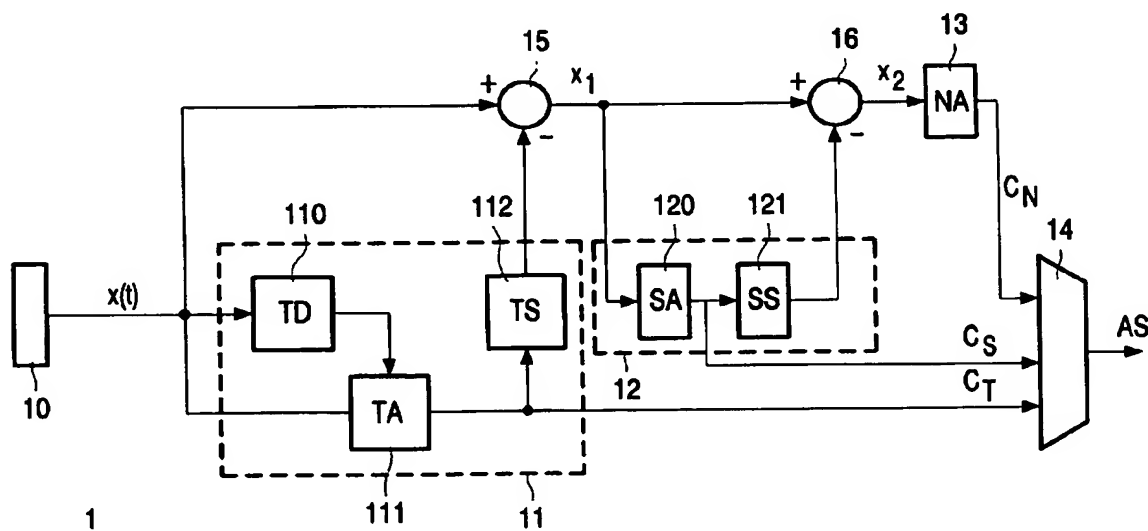
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(54) Title: **SINUSOID SELECTION IN AUDIO ENCODING**



(57) Abstract: A method of encoding (1) an audio signal ($x(t)$) by representing (12) at least part of the audio signal by a plurality of sinusoids, the method comprising the steps of performing an analysis on a first segment of said audio signal, selecting candidate sinusoids based on said analysis, determining for at least one of the candidate sinusoids a phase consistency defined by an extent to which a phase of said candidate sinusoid at a certain moment in time can be predicted from a phase of said candidate sinusoid determined at another moment in time, and selecting said candidate sinusoid as a selected sinusoid when its phase consistency is above a predetermined threshold. The selection of sinusoids according to the invention will result in a smaller number of sinusoids to be encoded for a given audio quality, which is advantageous in terms of bit-rate for a given audio quality.



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